

<!--StartFragment-->RESULT 10

AAD46486/c

ID AAD46486 standard; DNA; 1481 BP.

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AC AAD46486;

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DT 27-JAN-2003 (first entry)

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DE Human amylin exon 3 mutant DNA.

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KW Human; insulin secretion; hepatocyte nuclear factor; HNF-1alpha; amylin;
KW glucokinase; mitochondrial DNA; type-2 diabetes; mutant; ds.

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OS Homo sapiens.

OS Synthetic.

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FH Key Location/Qualifiers

FT mutation replace(254, A)

FT /*tag= a

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PN WO200272875-A1.

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PD 19-SEP-2002.

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PF 14-MAR-2002; 2002WO-CN000158.

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PR 14-MAR-2001; 2001US-0275891P.

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PA (UYCH-) UNIV CHINESE HONG KONG.

PA (WEST/) WEST C P.

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PI Critchley JAJH, Ng MCY, Lee SC, Cockram CS, Chan JCN;

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DR WPI; 2002-723370/78.

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PT Microchip useful for detecting increased risk of, or predisposition to
PT Type-2 diabetes or screening genetic mutations in Chinese individuals,
PT comprises genes having mutations which indicate a predisposition for type
PT -2 diabetes.

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PS Disclosure; Page 87; 94pp; English.

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CC The present invention relates to methods and compositions for identifying
CC mutations and polymorphisms in mutant genes encoding the gene product
CC involved in insulin secretion such as hepatocyte nuclear factor (HNF)-
CC 1alpha, glucokinase, amylin and mitochondrial DNA. The invention also
CC relates to a microchip which comprises a combination of two different
CC mutant nucleic acid sequences of a wild-type nucleic acid sequence that
CC encodes a protein involved in insulin secretion where the gene comprises
CC a mutation indicative of a predisposition for type-2 diabetes in a member
CC of a Chinese population. The microchips of the invention are useful for
CC detecting the increased risk of an individual with decreased insulin
CC secretory function to develop type 2 diabetes, screening for genetic
CC mutations in an individual diagnosed with type 2 diabetes, screening for
CC genetic mutations indicative of increased risk of an individual to
CC develop type 2 diabetes and screening for a genetic predisposition to
CC develop type 2 diabetes in an individual having a primary family member
CC that has been diagnosed with type 2 diabetes, where the individual is of
CC a Chinese population. The present sequence is human amylin exon 3 mutant
CC DNA which encodes a protein with S20G mutation

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SQ Sequence 1481 BP; 451 A; 267 C; 303 G; 460 T; 0 U; 0 Other;

Query Match 100.0%; Score 18; DB 6; Length 1481;

Best Local Similarity 100.0%; Pred. No. 40;

